

WHAT IS CLAIMED IS:

1. A method for driving a light emitting apparatus comprising the steps of;
providing the light emitting apparatus including a light emitting section for emitting light, the light emitting section being an LED device which includes an InGaN quantum well layer as an active layer, and a color of the light of the LED device being blue shifted with a change in value of a driving current;
supply a pulse current to the light emitting apparatus to drive the light emitting apparatus, and
controlling separately the peak value and the duty ratio of the pulse current.
2. A method according to claim 1, wherein at least the color of the light emitting from the light emitting apparatus is controlled by changing the peak value of the pulse current supplied to the light emitting apparatus.
3. A method according to claim 1, wherein the color of the light emitting from the light emitting apparatus is controlled by changing the peak value of the pulse current supplied to the light emitting apparatus, and the intensity of the light from the light emitting apparatus is separately controlled by changing the duty ratio of the pulse current supplied to the light emitting apparatus.
4. A method for driving a light emitting apparatus according to claim 1, wherein;
the amount of shifting the color of the light emitting from the light emitting apparatus is less than 6nm in the condition of changing the peak value of the pulse current supplied to the light emitting apparatus.

5. A method for driving a light emitting apparatus according to claim 1, wherein;
the peak current value is controlled so that the emission wavelength of the LED device is changed; and
the duty ratio is controlled so that the emission intensity of the LED device is substantially maintained constant.
6. A method according to claim 1, wherein the pulse current has a period equal to or less than 30ms and a pulse width equal to or larger than 0.2ns.
7. A method for driving a light emitting apparatus comprising the steps of;
providing the light emitting apparatus including a light emitting section for emitting light, the light emitting section including an LED device and a fluorescent excited by light emitted by the LED device, and a color of the light of the LED device being blue shifted with a change in value of a driving current;
supply a pulse current to the light emitting apparatus to drive the light emitting apparatus, and
controlling separately the peak value and the duty ratio of the pulse current.
8. A method according to claim 7, wherein at least the color of the light emitting from the light emitting apparatus is controlled by changing the peak value of the pulse current supplied to the light emitting apparatus.
9. A method according to claim 7, wherein the color of the light emitting from the light emitting apparatus is controlled by changing the peak value of the pulse current supplied to the light emitting apparatus, and the intensity of the light from the light emitting apparatus is separately controlled by changing the duty ratio of the pulse current supplied to the light emitting apparatus.

10. A method for driving a light emitting apparatus according to claim 7, wherein;

the amount of shifting the color of the light emitting from the light emitting apparatus is less than 6nm in the condition of changing the peak value of the pulse current supplied to the light emitting apparatus.

11. A method for driving a light emitting apparatus according to claim 7, wherein;

the peak current value is controlled so that the emission wavelength of the LED device is changed; and

the duty ratio is controlled so that the emission intensity of the LED device is substantially maintained constant.

12. A method according to claim 7, wherein, if a value of the driving current is changed, the variation of a color of light emitting from the light emitting section is larger than that of a color of light emitting from the LED device.

13. A method according to claim 7, wherein the LED device includes an InGaN quantum well layer as an active layer.

14. A method according to claim 13, wherein the pulse current has a period equal to or less than 30ms and a pulse width equal to or larger than 0.2ns.

15. An apparatus for driving a light emitting apparatus, comprising;
a plurality of the light emitting apparatus which are disposed so as to form a shape of a plane, and are driven by a driving current so as to obtain a color of the light

being blue shifted, the light emitting apparatus including a light emitting section for emitting light, the light emitting section being an LED device which includes an InGaN quantum well layer as an active layer, and a color of the light of the LED device being blue shifted with a change in value of the driving current;

means for supplying a pulse current to the light emitting apparatus to drive the light emitting apparatus, and

means for controlling separately the peak value and the duty ratio of the pulse current, whereby the light emitting apparatus emits light having a desired color by changing the peak value of the pulse current, even if the driving current is changed.

16. A method according to claim 15, wherein at least the color of the light emitting from the light emitting apparatus is controlled by changing the peak value of the pulse current supplied to the light emitting apparatus.

17. A method according to claim 15, wherein the color of the light emitting from the light emitting apparatus is controlled by changing the peak value of the pulse current supplied to the light emitting apparatus, and the intensity of the light from the light emitting apparatus is separately controlled by changing the duty ratio of the pulse current supplied to the light emitting apparatus.

18. An apparatus for driving a light emitting apparatus, comprising;
a plurality of the light emitting apparatus which are disposed so as to form a shape of a plane, and are driven by a driving current so as to obtain a color of the light being blue shifted,

the light emitting apparatus including a light emitting section for emitting light, the light emitting section including an LED device and a fluorescent excited by light emitted by the LED device, and a color of the light of the LED device being blue shifted with a change in value of the driving current;

- means for supplying a pulse current to the light emitting apparatus to drive
the light emitting apparatus, and
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- means for controlling separately the peak value and the duty ratio of the
pulse current, whereby the light emitting apparatus emits light having a desired color by
changing the peak value of the pulse current, even if the driving current is changed.
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19. A method according to claim 18, wherein at least the color of the light emitting from the light emitting apparatus is controlled by changing the peak value of the pulse current supplied to the light emitting apparatus.

20. A method according to claim 18, wherein the color of the light emitting from the light emitting apparatus is controlled by changing the peak value of the pulse current supplied to the light emitting apparatus, and the intensity of the light from the light emitting apparatus is separately controlled by changing the duty ratio of the pulse current supplied to the light emitting apparatus.